

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2017/0086077 A1 TENG et al.

Mar. 23, 2017

(43) **Pub. Date:**

(54) METHOD, APPARATUS AND SYSTEM

(71) Applicant: NOKIA SOLUTIONS AND NETWORKS OY, Espoo (FI)

Inventors: Yong TENG, Beijing (CN); Kari Veikko HORNEMAN, Oulu (FI); Ling

YU, Kauniainen (FI)

Assignee: NOKIA SOLUTIONS AND

NETWORKS OY, Espoo (FI)

15/311,387 (21) Appl. No.:

(22) PCT Filed: May 16, 2014

(86) PCT No.: PCT/EP2014/060098

§ 371 (c)(1),

Nov. 15, 2016 (2) Date:

Publication Classification

(51) Int. Cl.

H04W 16/14 (2006.01)H04W 28/08 (2006.01)H04W 28/02 (2006.01)

(52)U.S. Cl.

> CPC H04W 16/14 (2013.01); H04W 28/0236 (2013.01); **H04W 28/08** (2013.01)

(57)ABSTRACT

A method includes determining, for a first network, first activity information for shared usage of a first portion of a spectrum allocated to the first network with at least one second network and causing the activity information to be sent to at least one base station of said second network.

